

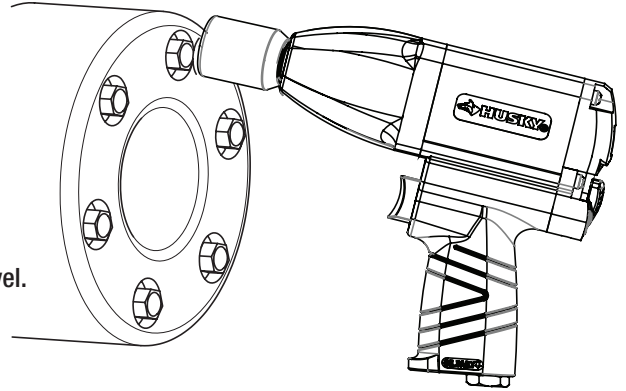
## Operation (continued)

### 5 Tightening or loosening the bolt or fastener



**WARNING:** Once a bolt or fastener is seated, impacting for longer than five (5) seconds will cause excessive wear and possible damage to the impact mechanism. If it takes longer to tighten or loosen your bolt or fastener, we recommend the use of a larger sized impact wrench.

- Fit the impact socket.
- Hold the impact wrench with one hand.
- Ensure that the operator is aware of the torque direction to tighten (Forward) or loosen (Reverse) and has selected the suitable torque level.
- Use the tool to tighten or loosen the bolt or fastener.

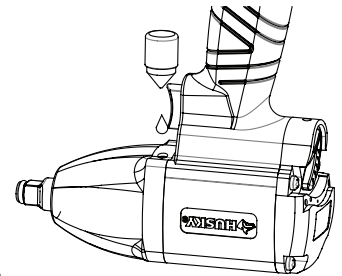


## Maintenance

Ensure the air line is shut-off and drained of air before removing this tool for service or changing sockets. This will prevent the tool from operating if the throttle is accidentally engaged.

### LUBRICATION

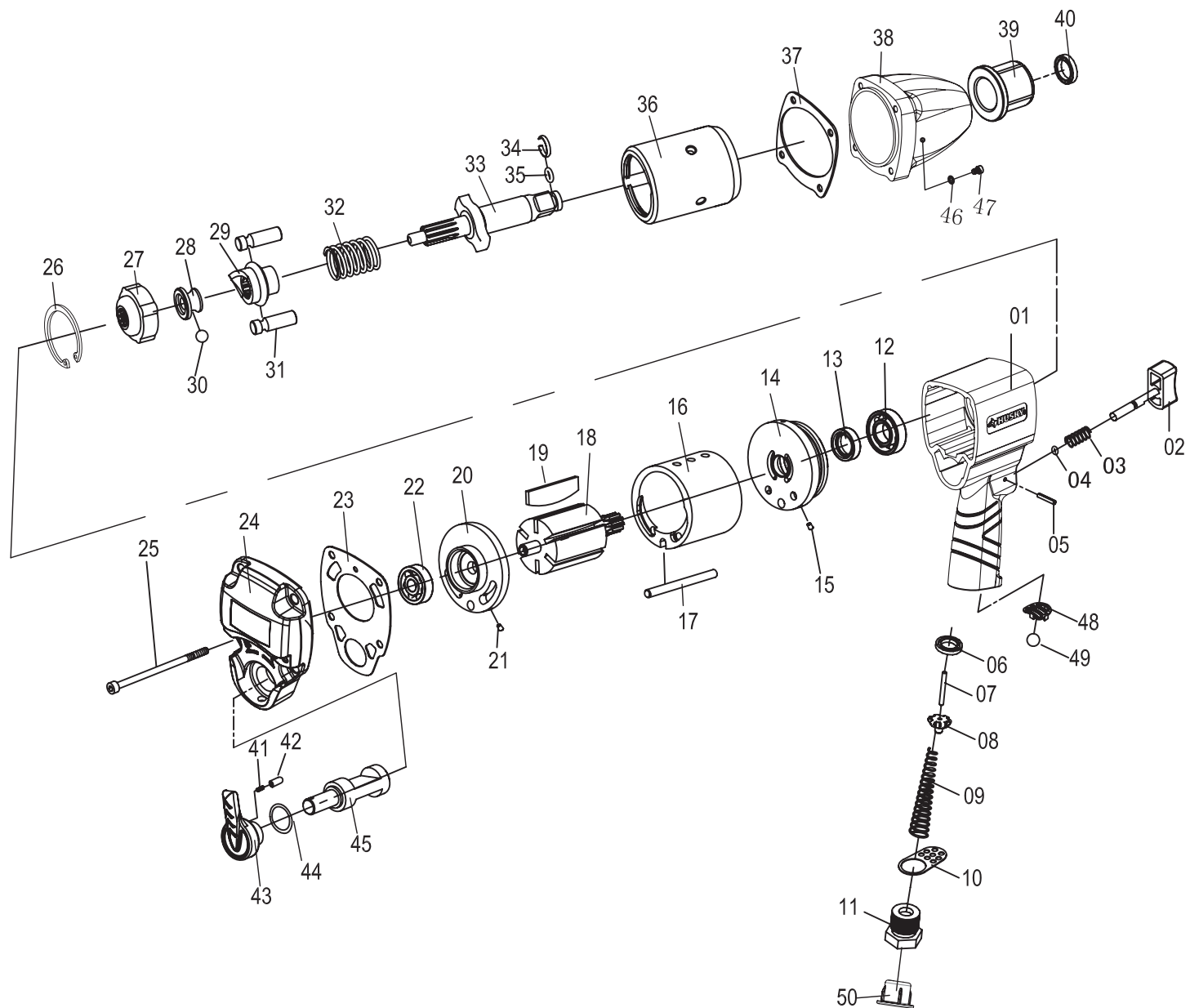
- An in-line filter-regulator-lubricator is recommended as it increases tool life and keeps the tool in sustained operation.
- Regularly check and fill the in-line lubricator with air tool oil. Avoid using excessive amounts of oil.
- Adjust the in-line lubricator by placing a sheet of paper next to the tool's exhaust ports and holding the throttle open approximately 30 seconds. The lubricator is properly set when a light stain of oil collects on the paper.
- If it is necessary to store the tool for an extended period of time (overnight, weekend, etc.), generously lubricate the tool through the air inlet. Run the tool for approximately 30 seconds to ensure the oil is evenly distributed throughout the tool. Store the tool in a clean and dry environment.
- Recommended lubricants: Air tool oil or any other high grade turbine oil containing moisture absorbent, rust inhibitors, metal wetting agents, and an EP (extreme pressure) additive.



# Troubleshooting

Problem	Possible Cause	Solution
The tool runs slowly or will not operate.	There is grit or gum in the tool.	Flush the tool with air tool oil or gum solvent.
	The tool is out of oil.	Lubricate the tool according to the lubrication instructions in this manual.
	The air pressure is low.	<ul style="list-style-type: none"> <li>□ Adjust the regulator on the tool to the maximum setting.</li> <li>□ Adjust the compressor regulator to the tool's maximum setting of 90 psi.</li> </ul>
	The air hose leaks.	Tighten and seal the hose fittings with pipe thread tape if leaks are found.
	The air pressure drops.	<ul style="list-style-type: none"> <li>□ Ensure the hose is the proper size. Long hoses or tools using large volumes of air may require a hose with an I.D. of ½" or larger depending on the total length of the hose.</li> <li>□ Do not use a multiple number of hoses connected together with a quick connect fitting. This causes additional pressure drops and reduces the tool power. Directly connect the hoses together.</li> </ul>
	There is a worn rotor blade in the motor.	Replace the rotor blade.
	There is a worn ball bearing in the motor.	Remove and inspect the bearing for rust, dirt, and grit. Replace or clean and grease the bearing with bearing grease.
There is moisture blowing out of the tool's exhaust.	There is water in the tank.	Drain the tank. (See the air compressor manual for instructions.) Lubricate the tool and run it until water is not evident. Lubricate the tool again and run for 1-2 seconds.
The tool impacts slowly or not at all.	The tool needs lubricating.	Lubricate the air motor and the impact mechanism according to the lubrication instructions in this manual.
	The tool regulator setting is in the wrong position.	Adjust the regulator on the tool to the maximum setting.
The tool impacts rapidly, but will not remove bolts.	The tool has a worn impact mechanism.	Replace the worn impact mechanism components.
The tool does not impact.	The impact mechanism is broken.	Replace the broken impact mechanism components.

# Service Parts



## Service Parts (continued)

Reference Number	Part Number	Description
1	9442001	Housing Assembly
2	9214703	Trigger Assembly
3	9442003	Trigger Spring
4	9287198	O-Ring
5	9106106	Trigger Pin
6	9214708	Valve Seat
7	9287184	Valve Stem
8	9287185	Throttle Valve
9	9106247	Valve Spring
10	9442010	Exhaust Deflector
11	9106112	Air Inlet Bushing
12	9106221	Ball Bearing
13	9106222	Oil Seal
14	9106224	Front End Plate
15	9106254	Plug
16	9106225	Cylinder
17	9106226	Dowel Pin
18	9106227	Rotor
19	9106228	Rotor Blade (6)
20	9106229	Rear End Plate
21	9106226	Dowel Pin
22	9106230	Ball Bearing
23	9442023	Gasket
24	9442024	End Cap
25	9442025	Cap Screw (4)

Reference Number	Part Number	Description
26	9106210A	Retainer Ring
27	9106220B	Hammer Cage Cap
28	9106217	Drive Ball Seat
29	9106216	Cam
30	9106218	Steel Ball
31	9106219	Hammer Pin (2)
32	9106215	Spring
33	9106214	Anvil
34	9106212	Socket Retainer
35	9150070	O-Ring
36	9106220A	Hammer Cage
37	9442037	Gasket
38	9442038	Hammer Case
39	9106209	Anvil Bushing
40	9106208	Oil Seal
41	9106238	Spring
42	9106237	Locking Pin
43	9106239	Reverse Switch
44	9442044	O-Ring
45	9442045	Reverse Valve Stem
46	9442046	O-Ring
47	9442047	Oil Plug
48	9442048	Muffler Cover
49	9106251	Ceramic Silencing Ball (3)
50	9312248	Plastic Plug